COMPLEX PROBLEMS · PRECISE SOLUTIONS

Facilities & Capabilities

Bozeman CNC is a family-owned aerospace & defense machine shop in Belgrade, Montana. Six CNC machining centers — 3-, 4- and 5-axis milling plus mill-turn — backed by precision turning, surface grinding, in-house CMM and vision metrology, and robotic automation for lights-out production. From first-article prototypes to flight hardware, with full digital traceability on every part.

- AS9100D CERTIFIED
- ITAR REGISTERED
- CMMC LEVEL 2 · SELF-ASSESSED
- CAGE 11JD4

6	5-Axis	60K	24/7
CNC MACHINING CENTERS	MILLING + MILL-TURN	MAX SPINDLE RPM	LIGHTS-OUT CAPABLE

BELGRADE, MONTANA · FAMILY-OWNED · PROTOTYPE → FLIGHT HARDWARE

WHAT MATTERS TO YOU

Size, materials, speed, and precision

Every job comes down to four questions about your part — how big, what material, how fast, and how exact. Here's where we stand on each.

— WORK-PIECE RANGE

From Swiss-size parts to a 43-inch envelope

Small, intricate turned-and-milled components run on the mill-turn; large plates, housings and structural brackets go to the big verticals; and anything with critical angled features is finished in one setup on 5-axis.

LARGEST: **43.3 × 22.0 × 20.1 in** — 1,100 × 560 × 510 mm work cube · parts to 2,200 lb

5-AXIS: **Ø 33 × 20 in** — Ø 840 × 500 mm swing · to 1,300 lb · one setup

FLAT PLATE: **40 × 33 in bed** — 1,020 × 830 mm · high-speed aluminum & plastics

SMALLEST: **Swiss-size** — intricate turned + milled parts, bar-fed, complete in one op



MAXIMUM WORK ENVELOPE — X · Y · Z — INCHES / MM

— MATERIALS

Aerospace metals through engineering plastics, with material certifications and full traceability on every order.

Aluminum · Titanium · Stainless steels · Inconel & nickel superalloys · Tool & alloy steels · Copper & brass · PEEK · Delrin · Ultem · Composites

— LEAD TIMES

Fast and predictable. Robotic machine tending keeps spindles cutting after hours, and a fully paperless shop flow keeps every job scheduled and visible from quote to shipment — so quick-turn prototypes stay quick and production ships on the date we commit to.

Powered By ProShop — Digital Manufacturing Ecosystem

— PRECISION

Tight-tolerance work held and proven in-house. 5-axis and Swiss machining verified on Keyence optical and CMM metrology under an AS9100D quality system — first articles ship with ballooned AS9102 reports and complete material traceability.

INSPECTION: **High**QA

AS9102 FIRST-ARTICLE REPORTS

EQUIPMENT

The floor

A deliberate mix of envelope, speed, and precision — larger 3-axis work, true 5-axis and mill-turn for complex geometry, high-speed cells, and dedicated metrology, all set up for robotic machine tending and unattended runs.

— CNC MILLING · 4 MACHINING CENTERS

5-AXIS

DMG Mori DMU 75 monoBLOCK
5-AXIS SIMULTANEOUS

TRAVELS	29.5 × 25.6 × 22.0 in 750 × 650 × 560 mm
MAX PART	Ø 33 × 20 in Ø 840 × 500 mm · 1,300 lb
SPINDLE	20,000 rpm · HSK-A63

Shines at: one-and-done setups. Complex contours and critical true-position features machined complete in a single clamping — no re-fixturing, no stack-up error, more accuracy.

3-AXIS VMC ×2

DMG Mori CMX 1100 V
VERTICAL MACHINING CENTER

TRAVELS	43.3 × 22.0 × 20.1 in 1,100 × 560 × 510 mm
MAX PART	2,200 lb 1,000 kg
SPINDLE	15,000 rpm · CAT40

Shines at: the big stuff. Larger housings, plates and brackets — two identical machines run in parallel for throughput and redundancy.

HIGH-SPEED · 4-AXIS

Datron M8Cube
HIGH-SPEED 3 + 4TH AXIS

TRAVELS	40 × 33 × 10 in 1,020 × 830 × 245 mm
SPINDLE	up to 60,000 rpm
4TH AXIS	Rotary

Shines at: large flat-plate work in aluminum and plastic — and it is exceptionally accurate. Fine features, thin walls and engraving across a 40 × 33 in bed.

HIGH-SPEED · 30-TAPER

Brother Speedio S700X2

TRAVELS	27.6 × 17.7 × 11.8 in 700 × 450 × 300 mm
SPINDLE	27,000 rpm · BT30

Shines at: fast-cycle production milling, drilling and tapping — short chip-to-chip times keep unit cost down.

— MILL-TURN · SWISS MICRO-PRECISION

5-AXIS MILL-TURN

Willemin-Macodel 408MT
SWISS-TYPE MILL-TURN

PROCESS	Simultaneous turn + mill
SPINDLE	HSK-E40 · high-speed

Shines at: volume. Large production quantities turned and milled complete in a single setup, bar-fed for continuous, unattended run time.

— TURNING & GRINDING

PRECISION LATHE

Hardinge HLV-H
SUPER-PRECISION TOOLROOM

SWING	~11 in over bed
CENTERS	~18 in between
SPINDLE	125-3,000 rpm

Super-precision turned parts and exceptional surface finishes on small-diameter work.

SURFACE GRINDING

Surface Grinder
PRECISION FLATS & TOOLING

TABLE	6 × 18 in

Ground flats, parallels and in-house tooling and fixtures held to fine tolerance.

— METROLOGY & INSPECTION · IN-HOUSE

OPTICAL MEASUREMENT

Keyence IM-X1540
IMAGE DIMENSION SYSTEM

TYPE	Automated optical
STAGE	Large-format
THROUGHPUT	Dozens of dims / scan

Fast, repeatable, operator-independent dimensional inspection for first articles and in-process checks.

CMM

Keyence XM-5000A
HANDHELD-PROBE CMM

TYPE	Probe + camera
RANGE	Wide-area volume
OUTPUT	Full GD&T reports

Coordinate measurement and GD&T on large or complex parts — taken to the part, anywhere on the floor.

— AUTOMATION

LIGHTS-OUT

Robotic Machine Tending
A.K.A. WILSON

RUNS	Extended-hours & lights-out
COVERAGE	Any machine on the floor

Meet Wilson — yes, named after the one from *Cast Away*. He keeps the crew company on the night shift and tends machines so parts keep cutting after hours, more spindle time, steadier lead times, no second shift. And unlike the first Wilson, this one isn't going anywhere.



PICK & PLACE · HOW WILSON TENDS OUR MACHINES OVERNIGHT

WHY BOZEMAN CNC

Quality and on-time delivery are the price of admission. We strive for better.

PEOPLE

FAMILY-OWNED. PEOPLE WHO CARE.

Family-owned, with people who truly care about their work. You deal directly with the machinists on the shop floor — the people who read your print and take it personally that every part ships right.

CULTURE

PROBLEM SOLVERS. WE LOVE A CHALLENGE.

We are problem solvers who love a challenge. We're passionate about manufacturing, and about putting the latest technology to work to achieve quality and precision above expectation.

TECHNOLOGY

WE INVEST IN WHAT'S NEXT.

Deliberate investment in state-of-the-art machinery and automation: 5-axis and Swiss mill-turn, 60,000-rpm high-speed milling, robotic machine tending for lights-out runs, in-house optical and CMM metrology, and a paperless shop from quote to ship.

QUALIFIED SUPPLIER

Certifications & registrations

QUALITY SYSTEM

AS9100D

Certified aerospace quality management system (ISO 9001 + aviation, space & defense requirements).

REG. NO. US082-QCM
TIQCB QUALITY CERTIFIED
ANAB ACCREDITED

EXPORT CONTROL

ITAR

Registered with the U.S. State Department (DDTC) for the manufacture of defense articles.

CYBERSECURITY

CMMC L2

NIST SP 800-171 controls implemented. Level 2 self-assessment on file.

GOV. CONTRACTING

CAGE 11JD4

Commercial and Government Entity code for direct U.S. government and prime contracting.

Have a part that other shops turn away?

REQUEST A QUOTE

BELGRADE, MT · (406) 780-9911 · BOZEMANCNC.COM

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